

What is claimed is:

1. A CZ raw material supply method for charging a solid raw material in the shapes of granules/lumps into a molten raw material in a crucible in single crystal growth by means of a CZ method, comprising: a step of closing a bottom of a cylindrical raw material vessel made of a material non-meltable when being in contact with said molten raw material in said crucible with a bottom cover made of a material meltable and removable when being in contact with said molten raw material in said crucible to cause said raw material vessel to be filled with said solid raw material in the shapes of granules/lumps; a step of hanging down said raw material vessel, attached with said bottom cover, and filled with said solid raw material above said crucible to melt said bottom cover by putting it into contact with said molten raw material in said crucible and to thereby open a bottom of said raw material vessel; and a step of supplying said solid raw material in said raw material vessel into said molten raw material in said crucible from said opened bottom.

2. The CZ raw material supply method according to claim 1, wherein a lower portion of said raw material vessel is immersed into said molten raw material in said crucible to thereby put said bottom cover into contact with said molten raw material in said crucible and remove said bottom cover.

3. The CZ raw material supply method according to claim

1, wherein said lower portion of said raw material vessel is moved close to said molten raw material in said crucible to thereby put said bottom cover into contact with said molten raw material in said crucible and remove said bottom cover.

4. The CZ raw material supply method according to claim 2, wherein a temperature of said molten raw material is higher than a melt temperature of said solid raw material in said crucible at an initial stage in the range of 1420 to 1450°C by 50 to 130°C when said lower portion of said raw material vessel is immersed into said molten raw material in said crucible.

5. The CZ raw material supply method according to claim 1, wherein a volume of said raw material vessel is in the range of 10 to 20% of a volume of said crucible.

6. The CZ raw material supply method according to claim 1, wherein said non-meltable material of which said raw material vessel is made is quartz or SiC.

7. The CZ raw material supply method according to claim 1, wherein said meltable material of which said bottom cover is made is the same material as said solid raw material.